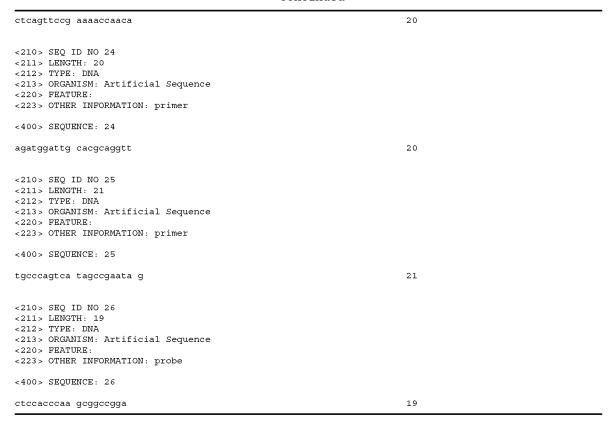
## -continued



- 1. A viral vector production system comprising a viral vector production cell comprising nucleic acid sequences encoding: 1) viral vector components; and 2) a nuclease, wherein the nuclease is expressed in the production cell and secreted in cell culture thereby degrading residual nucleic acid during viral vector production.
- 2. A viral vector production system comprising: 1) a viral vector production cell comprising nucleic acid sequences encoding viral vector components; and 2) a nuclease helper cell comprising a nucleic acid sequence encoding a nuclease, wherein the nuclease is expressed and secreted in co-culture of the production cell of 1) and the helper cell of 2), thereby degrading residual nucleic acid during viral vector production
- 3. A method of producing a viral vector, the method comprising, transfecting a viral vector production cell with nucleic acid sequences encoding: 1) viral vector components; and 2) a nuclease, wherein the viral vector components and the nuclease are expressed in the viral vector production cell and secreted in cell culture thereby degrading residual nucleic acid during viral vector production.
- **4.** A method of producing a viral vector, the method comprising contacting 1) a viral vector production cell expressing viral vector components with 2) a nuclease helper cell expressing a nuclease, wherein the nuclease is expressed in the helper cell and secreted in co-culture of the production cell with the helper cell thereby degrading residual nucleic acid during viral vector production.
- 5. A method of producing a viral vector, the method comprising contacting 1) a viral vector production cell

- expressing viral vector components with 2) a liquid feed from nuclease helper cell expressing a nuclease, wherein the nuclease is expressed in the cell and secreted in cell culture thereby degrading residual nucleic acid during viral vector production.
- **6**. In an improved method of producing a viral vector, the improvement comprising introducing nucleic acid sequences into a viral vector production cell, wherein the nucleic acid sequences encode: 1) viral vector components; and 2) a nuclease, wherein the nuclease is expressed in the production cell and secreted in cell culture thereby degrading residual nucleic acid during viral vector production.
- 7. In an improved method of producing a viral vector, the improvement comprising contacting in co-culture a viral vector production cell expressing viral vector components with a nuclease helper cell expressing a nuclease, wherein the nuclease is expressed in the production cell and secreted in cell culture thereby degrading residual nucleic acid during viral vector production.
  - 8. (canceled)
  - 9. (canceled)
- 10. The viral vector production system of claim 1, wherein the nuclease is an extracellular nuclease, a sugarnon-specific nuclease, or a salt-active nuclease.
  - 11-13. (canceled)
- **14**. The viral vector production system of claim **1**, wherein the nuclease is selected from the group consisting of: *Vibrio cholerae* Endonuclease I of SEQ ID NO: 1, *Vibrio*